REMARKS

Applicants would like to thank the Examiner for conducting a telephonic interview to assist applicants' attorney in responding to the pending office action.

The following comments are addressed to the Examiner's comments in each of the corresponding paragraphs in the office action.

1.   Address ok, new address in signature line of this response.

2. & 3.   Formal drawings are enclosed with corrections.

4. & 5.   35 USC § 102 (Babson)

The Examiner has rejected claims 1-26 as anticipated by Babson.

Babson discloses a system and method for designing and customizing telephone networks utilizing graphs to create a visual representation of the network services. The graphs are comprised of nodes which include decision nodes, assignment nodes, procedure nodes and conversation nodes. As described, both the graphs and the nodes presuppose the data structures and syntactic constructs of a procedural programming language in a procedural operating system. The nodes contain one or more subroutines for preforming various operations such as a decision node for forwarding calls to different extensions based on the particular day of the week as described in column 20, line 24 *et seq.* Other types of nodes perform tasks such as assigning values to variables as described in column 21, line 17 *et seq.* In contrast, the claimed invention is directed to an object-oriented operating system

wherein the telephony objects include logic (methods) and data associated with the object in a single model as described in the application.

"As will be understood by those skilled in the art, Object-Oriented Programming (OOP) objects are software entities comprising data structures and operations on the data. Together, these elements enable objects to model virtually any real-world entity in terms of its characteristics, represented by its data elements, and its behavior, represented by its data manipulation functions. In this way, objects can model concrete things like people and computers, and they can model abstract concepts like numbers or geometrical concepts. The benefits of object technology arise out of three basic principles: encapsulation, polymorphism and inheritance.

Objects hide, or encapsulate, the internal structure of their data and the algorithms by which their functions work. Instead of exposing these implementation details, objects present interfaces that represent their abstractions cleanly with no extraneous information. Polymorphism takes encapsulation a step further. The idea is many shapes, one interface. A software component can make a request of another component without knowing exactly what that component is. The component that receives the request interprets it and figures out according to its variables and data, how to execute the request. The third principle is inheritance, which allows developers to reuse pre-existing design and code. This capability allows developers to avoid creating software from scratch. Rather, through

inheritance, developers derive subclasses that inherit behaviors, which the developer then customizes to meet their particular needs."(Patent Application, p. 7, lines 1-22)

The claimed invention is a carefully architected, object-oriented operating system and takes advantage of encapsulation, polymorphism and inheritance to maximize code reuse and extensibility. The claimed object-oriented operating system includes a telephony object for initiating a call connection, monitoring call progress, activating call features and storing status information in the data of the telephony object is not taught or suggested by Babson.

<u>6. & 7.</u>   **35 USC §102 (Hayden, Britton et al. or Ljungblom)**

The Examiner has rejected claims 1-26 as anticipated by Hayden, Britton OR Ljungblom.

<u>Hayden</u>

Hayden discloses a graphical interface for managing calls in a communication network. The patent teaches how to create icons on a graphic display that are representative of a telephone. Then, a user can select the icon and enter a phone number or name of a person to be called. Then, the icon can be moved to various areas on the display to invoke a call connection or disconnect a call. All of these operations are performed in a procedural operating system in which a single user utilizes the graphical user interface to initiate calls instead of dialing the calls directly. However, the reference fails to teach or suggest the claimed object-oriented telephony system including the claimed telephony object for initiating a call connection information, monitoring call progress, activating call features and storing status information in the data of the telephony object.

<u>Britton et al.</u>

The Examiner has rejected claims 1-26 as anticipated by Britton.

Britton discloses a system for designing a computer controlled interactive voice response system utilizing a voice response unit (VRU) with predefined program modules which the Examiner likens to an object in an object-oriented operating system. For example, the prompt and branch module plays an announcement to a user, collects dialed digits pressed in response to the prompt and selects the appropriate logical branch of the application program based on the user's input as described in column 6, lines 49 *et seq.* These program modules are simply sequences of procedural operations. The reference fails to teach or suggest the claimed object-oriented telephony system including the claimed telephony object for initiating a call connection, monitoring call progress, activating call features and storing status information in the data of the telephony object.

Ljungblom

The Examiner has rejected claims 1-26 as anticipated by Ljungblom.

Ljungblom discloses a service management system for configuring and monitoring a computer network utilizing icons displayed on a graphical screen. The icons represent various network services, such as service control points and service switching and control points. Support is provided to implement such applications as credit card calling. However, the reference fails to teach or suggest the claimed object-oriented telephony system including the claimed telephony object for initiating a call connection, monitoring call progress, activating call features and storing status information in the data of the telephony object.

8. **35 USC §102 (Dickman)**

The Examiner has rejected claims 1-26 as anticipated by Dickman.

Dickman discloses call processing primitives which can be visually assembled into logic trees as graph nodes. The pseudocode presented in columns 10-13 of the Dickman patent presents the procedural logic utilized to service various call processing tasks. Figure 2 illustrates the sequential steps executed to support a particular call processing primitive in accordance with the invention. However, the reference fails to teach or suggest the claimed object-oriented telephony system including the claimed telephony object for initiating a call connection, monitoring call progress, activating call features and storing status information in the data of the telephony object.

Conclusion

None of the prior art references teach or suggest the following elements recited in the independent claims:

- "object-oriented operating system, including objects, each of the objects containing logic and data;"

- "a telephony object, including logic in the telephony object for interfacing the telephony element to the processor, data for storing status information associated with the telephony element and representative of the telephony element under the control of the object-oriented operating system, stored in the storage and displayed on the display;" or

- "means for controlling the telephony element by the object oriented operating system utilizing the logic in the telephony
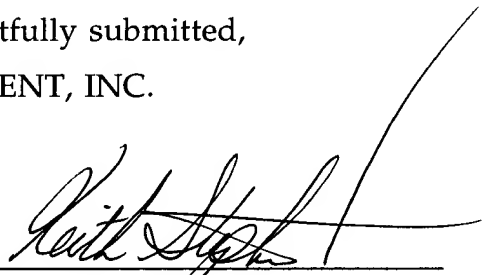
object to interface the telephony element to the processor by initiating a call connection, monitoring call progress, activating call features and storing status information in the data of the telephony object."

Thus, since all rejections, objections, and requirements contained in the outstanding official action have been fully answered and shown to be inapplicable to the present claims, it is respectfully submitted that reconsideration is now in order under the provisions of 37 CFR § 1.111(b) and such reconsideration is respectfully requested. Upon reconsideration, it is also respectfully submitted that this application is in condition for allowance and such action is therefore respectfully requested.

Should any additional issues remain, or if I can be of any additional assistance, please do not hesitate to contact me at (408) 777-5264.

Respectfully submitted,
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